GORDIYKIKO, P.A., stershiy nauchnyy sotrudnik; FEDOTOV, V.I., inzh.laborant; SHIL'NIKOV, V.I., mladshiy nauchnyy sctrudnik;
BUYNITSKIY, V.Kh., doktor geograf.nauk, red.; PAKHAREVA, M.K.,
red.; DROZHZHINA, L.P., tekhn.red.

[Materials of the Soviet Anterctic Expedition, 1955-] Materialy Sovetskoi anterkticheskoi ekspeditaii, 1955-. Leningrad, Izd-vo "Morskoi transport." Vol.11. [Ice cover of the shore waters of eastern Anterctica] Ledianoi pokrov pribreshnykh vod Vostochnoi Anterktidy. 1960. 116 p.

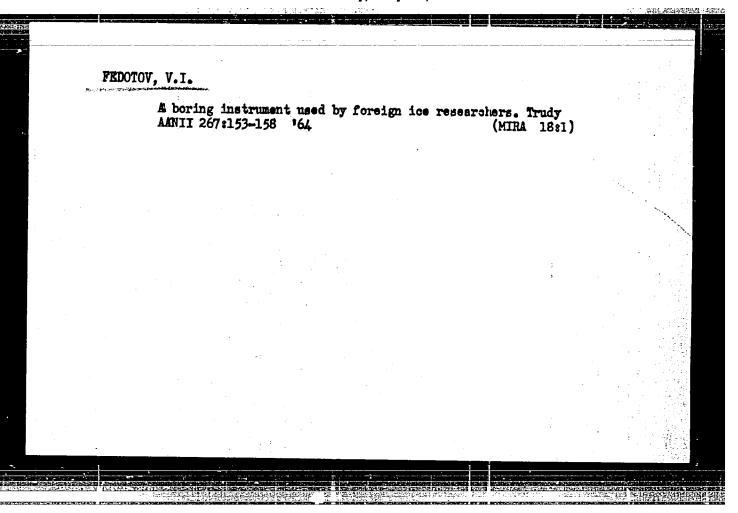
(MIRA 14:2)

1. Sovetskaya antarktiche skaya ekspeditsiya, 1955-(Antarctic regions--Russian exploration)

SIMCNOV, I.M.; mladshiy nauchnyy sotrudnik; FEDUTOV, V.I., mladshiy nauchnyy sotrudnik

Lakes of the Schirmacher Oasis. Inform. biul. Sov. antark. eksp. no.47;19-23 '64. (MIRA 13:4)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.



FEDOTOV V.K.

S/194/61/000/012/010/097 D209/D303

AUTHORS:

Sevast'yanov, V. V., Likhterov, I. M., Petukhov, V.N.,

Sherman, B. P., Fedotov, V. K. and Golovach, V. K.

TITLE:

Introducing level-meters to nonferrous metallurgy

plants

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 31, abstract 12A229 (Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. V. 3, M., Gos-

toptekhizdat, 1961, 162-164)

TEXT: Described is a high sensitivity positional level-meter (L) type  $\gamma P \eta - 1013$  (URP-1013) for signalling attainment of the degree of separation between two substances of different densities without direct contact with the system under investigation. The separation is determined by recording the change of intensity of  $\gamma$ -radiation passing through the mixture. The instrument consists of a power unit, four radiation sources and four radiation receivers. Various installation methods of L are described, depending on the proper-

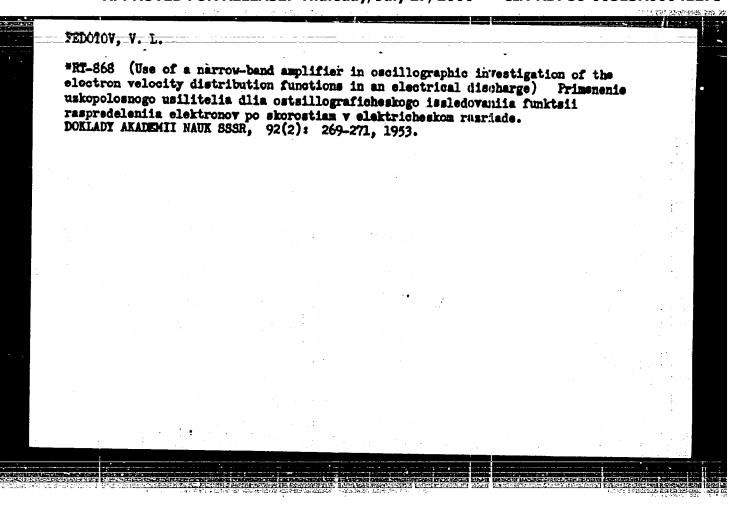
Card 1/2

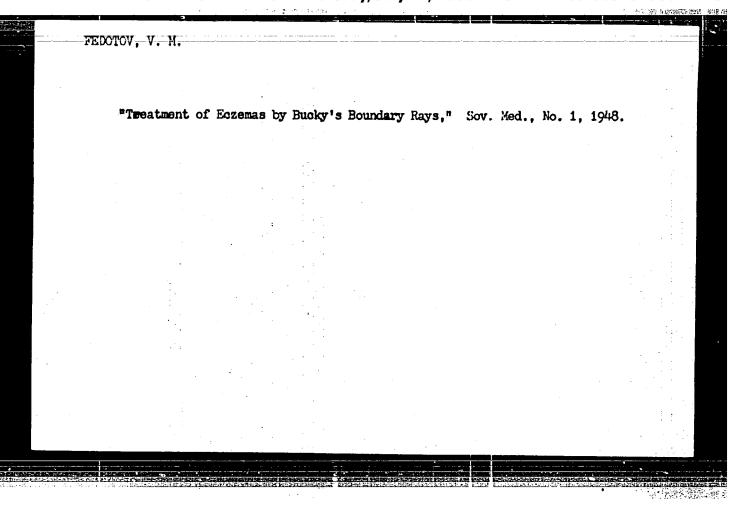
Introducing level-meters ...

S/194/61/000/012/010/097 D209/D303

ties of the mixture. Installation diagrams of L are given. The application of L to the bins of a crushing-agglomerating plant resulted in its automation. There are 2 figures. / Abstractor's note:

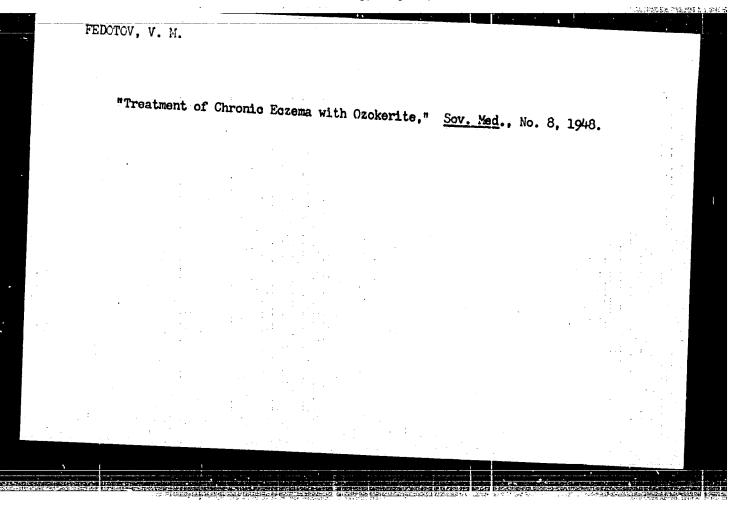
Card 2/2





"Affection of the Integuments of the Extremities of Wounds of the Spinal Cord," Sov. Med., No. 2, 1948.

Moscow Neurological Dept., Cent. Inst. of Health Resorts.



Feb 1948  Feb 1948  Feb 1948  climical collections, col- cosis, the chair of citimum, USSR.  LTTT1  Feb 1948  1 Diseases: f Science.
--

## FEDOTOV, V.M.

Treatment of skin diseases by general and local applications with a Naftalan oil emulsion exposed to sound waves. Vop.kur., fizioter.
i lech.fiz.kul't. no.4:63-56 O-D '55. (MIRA 12:12)

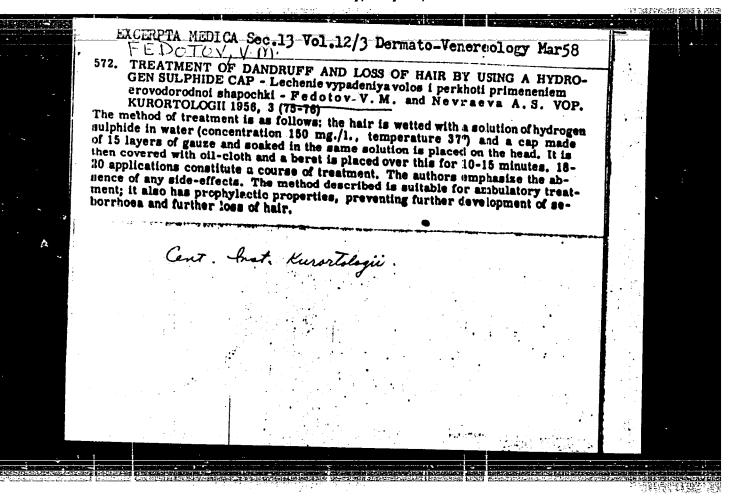
 Konsul'tant-dermatolog TSentral'nogo instituta kurortologii (dir. - kand.med.nauk G.N. Psopelova) (SKIN, diseases.

ther., naphthalan emulsion exposed to sound waves (EMULSIONS.

naphthalan, treated with sound waves, ther. of skin dis.)

(PETROLEUM PRODUCTS.

naphthalan emulsion treated with sound waves, ther. of skin dis.)



RARTULIS, Anton Petrovich, swinar', Geroy Sotsialisticheskogo Truda;

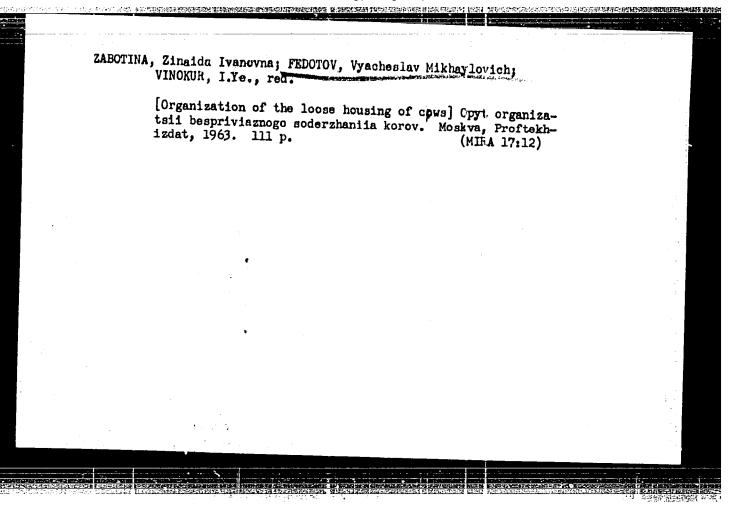
FEDOTOV, V.Me, red.; DETEVA, V.M., tekhn.red.

[My method of fattening swine] Moi metod otkorme swinei.

Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 38 p.

1. Sovkhoz "Kotenieki" Latviyskoy SSR (for Rertulia).

(Swine--Feeding and feeds)



£ 30357-66

ACC NR: AT6008317

SOURCE CODE: UR/0000/65/000/000/0086/0094

AUTHOR: Berkman, R. Ya. (L'vov); Fedotov, V. M. (L'vov)

ORG: none

TITLE: The analysis of the influence of the external magnetic field on the zero drift of magnetic modulators

SOURCE: AN UkrSSR. Elementy sistem otbora i peredachi informatsii (Elements of systems for selecting and transferring information). Kiev, Naukova dumka, 1965, 86-94

TOPIC TAGS: magnetic modulation, magnetic field interference, external magnetic field

ABSTRACT: The zero drift of magnetic modulators (MM) caused by external magnetic fields is one of the basic causes of errors in highly sensitive devices of this kind. The authors studied the most common MM with a second harmonic output and found that the asymmetry of semielements can be traced to the 1) longitudinal nonuniformity of the testing MM coil; 2) nonuniformity of the excitation coil; 3) nonun formity in the magnetic properties of core materials; 4) nonuniformities in core cross sections; and 5) nonuniform distribution of parasitic capacitances of the coils and the specific resistivity of the core material. The present article, representing the first of a series of papers, offers a thorough analysis of the influence of the nonuniformities in the test coil on the zero drift in magnetic modulators. Newly derived relationships were first translated into appropriate graphs and then compared with the experimentally measured values of the total asymmetricity coefficient of four magnetic modulators

Card 1/2

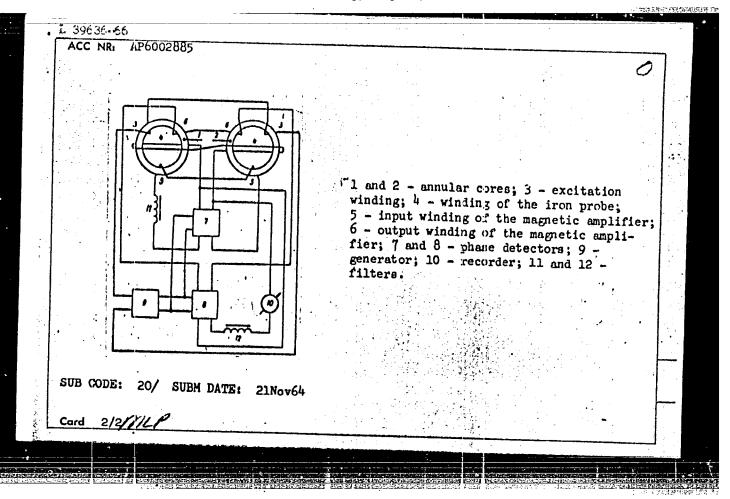
APPROVED FOR RELEASE: Thursday, July 27, 2000

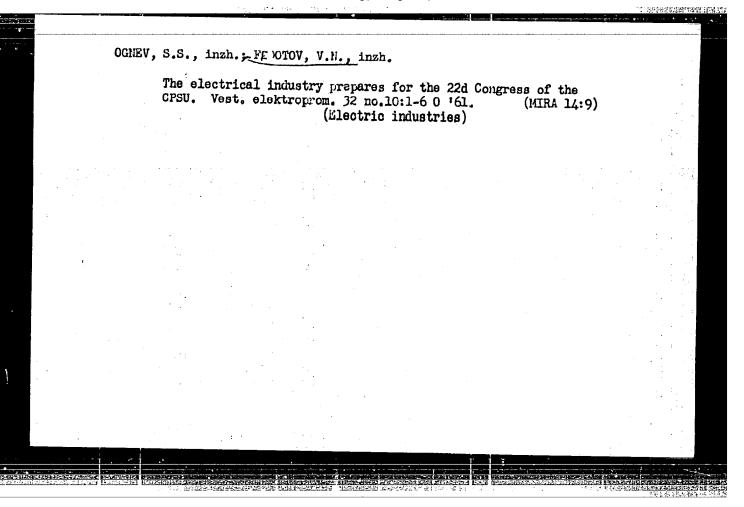
CIA-RDP86-00513R00041273(

ACC NR: AT6008317					····	***************************************	0
caused by all destable indicates that the parasymmetry of the testand on the mode of M cross section, and in figures, and I table.	casitic outpo st coil deper AM excitation ocrease in d	ut MM signal caunds on the relations. It increases	sed by thouship before with the	e external fi ween the ged increase in d	eld because ometric din excitation.	of the ensions decrease	in
SUB COL'E: 09,74/ S	UBM DATE	: 06Nov65 / OR	IG REF:	002			
						•	- 1
				•			
		;					
			•				
							: 1
							• .
			•				
Card 2/2 S J.	•						

THUENTOD: Woden		CODE: UN/0286/65/000/	9
INVENTOR: Fedoto	v, V. M.; Berkman, R. Ya.		7
ORG: none	٠.	, v	- B
TITLE: Device fo	r measuring magnetic fields.	(  Class 21, No. 176978	
SOURCE: Byulleter	n' izobreteniy i tovarnykh zna	kov, no. 24, 1965, 41	<del>-1</del> 12
TOPIC TAGS: magn	etic field, magnetic field mea	surement, me severement	
instrument, magne	tic amplifier, phase detector,	physica Robonatory	instrument
TRANSLATION: Adevi	ce for measuring magnetic fiel	ds. consisting of an	ennular tuan
L hrose min a matable.	tic amplifier, is characterize ron probe are applied in the f	d by the fact that the	s magalusina 💢 🖽 🕾
	brose me abbried in one I	orm or narrow roobs Pa	rer each of
one annarat coles	and connected with the input	winding of the mamber	lc amplifier
by a phase detector	and connected with the input of the	winding of the magnet:	
by a phase detector the entire length netic amplifier by	or. The input windings of the of the cores and connected will a supplementary phase detact.	winding of the magnet; magnetic amplifier as th the output winding	of the mag-
by a phase detector the entire length netic amplifier by corporated in the	or. The input windings of the of the cores and connected will a supplementary phase detect design in order to reduce the	winding of the magnet; magnetic amplifier as th the output winding	of the mag- sitcs were in- se device as
by a phase detector the entire length netic amplifier by	or. The input windings of the of the cores and connected wiy a supplementary phase detect design in order to reduce the consumption.	winding of the magnet; magnetic amplifier as th the output winding	of the mag-
by a phase detector the entire length netic amplifier by corporated in the	or. The input windings of the of the cores and connected will a supplementary phase detect design in order to reduce the	winding of the magnet; magnetic amplifier as th the output winding	of the mag- sitcs were in- se device as
by a phase detector the entire length netic amplifier by corporated in the	or. The input windings of the of the cores and connected wiy a supplementary phase detect design in order to reduce the consumption.	winding of the magnet; magnetic amplifier as th the output winding	of the mag- sitcs were in- se device as

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273





S/181/62/004/001/016/052 B125/B104

AUTHORS: Garif'yanov, N. S., Fedotov, V. N., and Timerov, R. Kh.

TITLE: Measurement of spin-lattice relaxation times in undercooled Ti3+ solutions by the method of continuous saturation

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 96 - 98

TEXT: The longitudinal spin-lattice relaxation time  $T_1$  in undercooled glycerol solutions of  $TiCl_3 \cdot 6H_20$  as a function of the concentration of  $Ti^{3+}$  ions has been measured at V=270 Mc/sec and  $77^{\circ}$ K by the method of continuous saturation.  $T_1$  was calculated from Bloch's formula  $Z=\left[1+0.25\chi^2H_1^2T_1T_2\right]^{-1}$ , where Z is the saturation factor,  $\chi$  is the gyromagnetic ratio,  $H_1$  is the h-f field amplitude, and  $T_2$  is the transverse relaxation time.  $H_1$  was also determined with standard samples of  $\alpha\alpha$ -diphenyl picryl hydrazyl, and  $T_2$  was calculated from the experimental width of the absorption curve. The dependence of  $T_1$  on the  $Ti^{3+}$  concentration, Card 1/3

Measurement of spin-lattice ...

S/181/62/004/001/016/052 B125/B104

which can be seen from the measured values, is probably due to the change in symmetry of the intracrystalline electric field at the magnetic  $\mathrm{Ti}^{3+}$  ion and to cross relaxation processes. The concentration dependence of  $\mathrm{T}_1$  of the  $\mathrm{Ti}^{3+}$  ions in undercooled solutions containing 4 and 2 moles/1 of  $\mathrm{CoCl}_2 \cdot 6\mathrm{H}_2\mathrm{O}$  was also studied. The shape of the e.p.r. lines is of the Lorentz type, and their width is virtually independent of the concentration. Saturation could not be achieved because of the considerable shortening of  $\mathrm{T}_1$ . The slight dependence of  $\Delta\mathrm{H}$  on the concentration of  $\mathrm{Ti}^{3+}$  ions and the Lorentz shape of the absorption lines are due to the fact that the  $\mathrm{Ti}^{3+}$  ions are in the local alternating magnetic field of rapidly relaxing magnetic  $\mathrm{Co}^{2+}$  ions. The variation in the line width  $\Delta\mathrm{H}$ , which can be estimated from  $\Delta\mathrm{H} \otimes \mathrm{H}_2^{1} \tau + \Delta\mathrm{H}_1$ , and the spin-lattice relaxation times in undercooled solutions of  $\mathrm{TiCl}_3 \cdot 6\mathrm{H}_2\mathrm{O}$  containing 4 and 2 moles/1 of  $\mathrm{CoCl}_2 \cdot 6\mathrm{H}_2\mathrm{O}$  are by no means due to the change in symmetry of the neighbor-Card 2/3

Measurement of spin-lattice ...

S/181/62/004/001/016/052 B125/B104

hood of the magnetic  $\text{Ti}^{3+}$  ion.  $\text{M}_z^{1} = (4/5) g_{\text{Ti}}^2 g_{\text{Co}}^2 \beta^4 s_{\text{Co}} (s_{\text{Co}} + 1) \sum_{i=1}^{2} \langle r_{ij}^{-6} \rangle$  is the mean square deviation of the local field generated by  $\text{Co}^{2+}$  ions from  $\text{H}_0$ ,  $\tau$  is the spin-lattice relaxation time of  $\text{Co}^{2+}$  ions, and  $\text{AH}_1$  is the contribution of dipole-dipole interactions between  $\text{Ti}^{3+}$  ions. The liquids containing  $\text{Co}^{2+}$  ions behave toward dipole-induced line broadening like true liquids. There are 2 tables and 6 references: 4 Soviet and 2 nonfollows: I. P. Goldslorugh, M. Mandel a. G. E. Pake. Phys. Rev. Lett., 4, 13, 1960; I. H. Van Vleck. Phys. Rev., 57, 426, 1952, 1940.

ASSOCIATION: Kazanskiy filial AN SSSR (Kazan' Branch AS USSR) SUBMITTED: July 11. 1961

Card 3/3

**APPROVED FOR RELEASE: Thursday, July 27, 2000** 

CIA-RDP86-00513R000412730

GARIF YAMOV, N.S.; FEDOTOV, V.N.

Electron paramagnetic resonance in solutions of ammonium oxopentachloromolybdate. Zhur.strukt. khim. 3 no.6:711-712 '62.

(MIRA 15:12)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.

(Ammonium molybdate—Spectra)

8/181/62/004/012/025/052 B104/B102

AUTHORS:

Garif'yanov, N. S., and Fedotov, V. N.

TITLE:

Electron paramagnetic resonance in supercooled WCl, solutions

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 12, 1962, 3537-3539

TEXT: The e.p.r. lines of supercooled and liquid solutions of WCl<sub>5</sub> in ethanol, glycerol and hydrochloric acid were investigated at 450 and 9320 Mc/sec and at 77 and 295°K. The WCl<sub>5</sub> concentrations were  $\sim 0.01$  mole/liter. In the solution of hydrochloric acid a symmetric e.p.r. line of the isotopes W 180, 182, 184, 186 having Gaussian form ( $\delta H = 18 \pm 2$  oe, g = 1.7) was observed at 450 Mc/sec and 77°K. In the supercooled ethanol solution the line was slightly asymmetric. It was not possible to dissolve the hyperfine structure. At 9320 Mc/sec and 77°K the tungsten e.p.r. line is strongly asymmetric. The line shape is typical for such ions as have anisotropic g-factors. Glycerol:  $g_{\parallel} = 1.79$ ,  $g_{\perp} = 1.757$ ; hydrochloric acid:  $g_{\parallel} = 1.78$ ;  $g_{\perp} = 1.756$ ; ethanol: Card 1/2

Electron paramagnetic resonance ... S/181/62/004/012/025/052

8| = 1.77; 8| = 1.718. The constants of the spectroscopic splitting are (in the same order as the solvents) 216, 220 and 148 ± 20 oe, i.e.

ASSOCIATION: Fiziko-tekhnicheskiy institut Kasanekogo filiala AN SSSR (Physicotechnical Institute of the Kazan' Branch AS USSR)

SUBMITTED: July 9, 1962

Card 2/2

24.6810

39175 S/056/62/043/002/003/053 B102/B104

24,7900 AUTHORS:

Garif'yanov, N. S., Fedotov, V. N.

TITLE:

Electron paramagnetic resonance in liquid and supercooled solutions of pentavalent molybdenum

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 2(8), 1962, 376-381

TEXT: The Mo<sup>5+</sup> ion is among the least studied paramagnetic ions. The authors studied the epr spectra for 450 and 9320 Mc/sec and 295, 220, and 77°K on MoOCl<sub>3</sub> (dissolved in acetone or ethanol), MoCl<sub>3</sub> (in glycerol), and Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5+</sup> in borax beads. Width, shape, and hyperfine structure of the Mo<sup>5+</sup> epr Mo<sup>5</sup>

Electron paramagnetic resonance in ...

\$/056/62/043/002/003/053 B102/B104

show carrow symmetric epr lines. The wide lines at 9320 Mc/sec in ethanol and borax bead are due to the anisotropy of the g factor. The hyperfine structure peaks can be described by

$$H = H_0^4 - am - \frac{a^2}{2H_0} \left[ I(I+1) - m^2 \right] - \frac{a^2}{2H_0} (2M-1) : E_0 = h\nu/g_0^3$$

a is the hyperfine splitting constant, m and M are respectively the magnetic quantum numbers of nucleus and shell electron; a =  $56 \pm 0.3$  ce, g =  $1.945 \pm 0.002$ . This holds for MoOCl, in supercooled and liquid ethanol solutions for the isotopes Mo<sup>95</sup> and Mo<sup>94</sup>;  $\nu$  = 9320 Mc/sec. The ratio of the nuclear magnetic moments is equal to that of the splitting constants (for Mo<sup>95,97</sup>):  $\mu_{97}/\mu_{95} = a_{97}/a_{95} = A_{97}/a_{95} = B_{97}/B_{95} = 1.32$ . The spin-lattice relaxation time was  $T_1 \sim 10^{-6}$  sec, the spin-spin relaxation time  $T_2 \sim 10^{-8}$  sec. The Mo<sup>5+</sup> concentrations were 0.005, 0.01, 0.05, and 0.2 moles/liter. The relaxation mechanism in the liquid state can be well Card 2/3

Electron paramagnetic resonance in ...

S/056/62/043/002/003/053 B102/B104

described by the theory of Al'tshuler and Valiyev (ZhETF, 35, 947, 1958), and that in the solid state by Van Vleck's theory (Phys. Rev. 57, 426, 1940). There are 1 figure and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Physicotechnical Institute of the Kazan' Branch of the Academy of Sciences USSR)

SUBMITTED: January 13, 1962

X

Card 3/3

FEDOTOV, V.N.; GARIF'YANOV, N.S.; KOZYREV, B.M.

Electron paramagnetic resonance in Hb4+. Dokl.AN SSSR 145 no.6:1318-1320 Ag 162. (MIRA 15:8)

1. Kazanskiy filial AN SSSR. Predstavleno akademikom B.A. Arbuzovym.
(Niobium chloride) (Magnetic resonance and relaxation)

GARIF'YANOV, N.S.; KUCHERYAVENKO, N.S.; FEDOTOV, V.N.

Study of some solutions of pentavalent molybdenum by the electron paramagnetic resonance method. Dokl. AN SSSR 150 no.4:802-804. Je '63. (MIRA 16:6)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR. Fredstavleno akademikom B.A. Arbusovym. (Molybdenum compounds—Speatra)

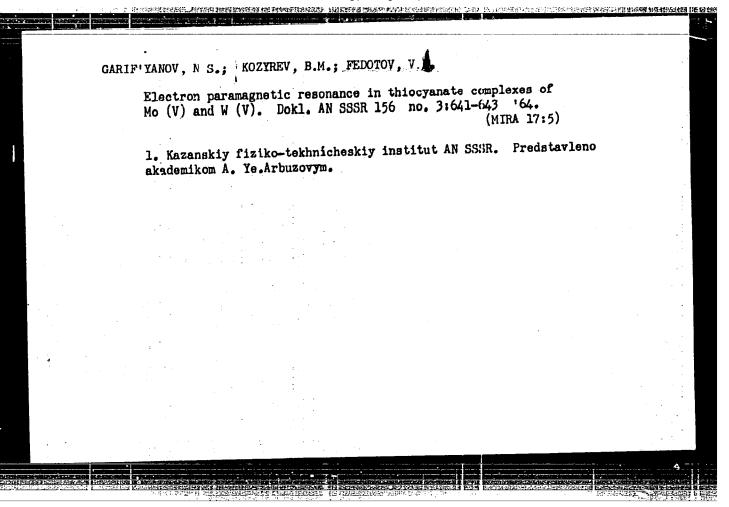
APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273(

GARIF'IANOV, N. S.; FEDOTOV, V. N.; KUCHERYAVENKO, N. S.

Electron paramagnetic resonance and nuclear spin echo in oxyfluoride solutions of pentavalent molybdenum. Izv AN SSSR Ser Khim no. 4:743-745 Ap '64. (MIRA 17:5)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.



## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

AUTHORS: Fedotor, V. B.; Reyf	pulse shaping. Class 85, Ku.	170391 B	
SOURCE: Byulleten' izobreteni;	y i tovarnykh znakov, no. 8, 1	9\$5, 127	
ABSTRACT: This Author Certification of the line of secondary clocks a by contacts interacting with design of the secondary contacts.	ocks with pulse transmission s and instruments. It contains a latenta positioned dissetrical	transistor controller opposite on the ru	
a disk placed on the driving a for inverting the polarity of	the electric pulses, which is	controlled by a section circuit of the	VIA.
a disk placed on the driving a for inverting the polarity of	that of the clock mechanism. the electric pulses, which is not disk. To simplify the elec-	controlled by a section circuit of the	VIA.
a disk placed on the driving a for inverting the polarity of placed coaxially with the deta device, the pulse polarity inv	that of the clock mechanism. the electric pulses, which is not disk. To simplify the elec-	controlled by a section circuit of the	
a disk placed on the driving a for inverting the polarity of placed coaxially with the deta device, the pulse polarity inv ASSOCIATION: none  SUBMITTED: 25Feb63	the electric pulses, which is ent disk. To simplify the electrorsion system is in the form of	controlled by a sectific circuit of the is a contact group.	or in the second
a disk placed on the driving a for inverting the polarity of placed coaxially with the deta device, the pulse polarity investigation and ASSOCIATION: none	the electric pulses, which is not disk. To simplify the electrorsion system is in the form of EMCL: 00	controlled by a sectific circuit of the is a contact group.	or design

GARIF'YANOV, N.S.; KOZYREV, B.M.; FEDOTOV, V.N.

Electron paramagnetic resonance in Mo (V) complexes with diethylphosphorodithioic acid. Teoret. i eksper. khim. 1 no.1:118-122 Ja-F '65. (MIRA 18:7)

1. Kazanskiy fiziko-tekhnicheskiy institut AN SSSR.

EVI (m)/EWP(1) ACC NR: 1.P6015540 SOURCE CODE: UR, 0379/65/001/001/0118/0122 AUTHOR: Garif yanov, N. S.; Kozyrev, B. H.; Fedotov, V. N. ORG: Kazan' Physicotechnical Institute. AN SSSR (Kazanskiy fiziko-tekhnicheskiy institut AN SSSR) TITIE: Electron paramagnetic reschance in complexes of Mo(V) with diethyldithiophosphoric acid SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 1, no. 1, 1965, 118-122 TOPIC TAGS: electron parametric resonance, complex molecule, molybdenum, organic phosphorus compound, solvent extraction ABSTRACT: The EPR method was used to study complexes of pentavalent molybdenum with diethyldithiophosphoric acid. The experiments were conducted at frequencies of 9320 megacycles and 300 megacycles at room temperature and at 770K. The complexes were prepared by the action of diethyldithiophosphoric acid on aqueous solutions of exyfluoride, exychloride, exybranide, and exysulfate of Mo(V), strongly acidified by HF, HCl, HBr, or H2SO4. The EPR spectra were investigated in both polar and nonpolar solvents, capable of extracting Mo(V) complexes from the initial solution, namely: carbon tetrachloride, benzene, toluene, diethylester, and ethanol. The EPR spectra of complexes of M(V) dissolved in excess disthyldithiophosphoric acid were also studied. It was concluded that the complex studied has the form of an anially distorted octahedron. The authors thank I. P. Lipatova for her carrying out the infrared spectr measurements in liquid solutions. Orig. art. has: 1 figure and 2 formulas. [JPRS] SUB CODE: 07, 20 / SUEM DATE: 20Nov64 / ORIG REF: 004

NIKOLAYENKO, N.S.; FEDOTOV, V.P.

Transistorized current converters. Izv.vys.ucheb.zav.; prib.
4 no.6:17-25 '61. (MIRA 14:12)

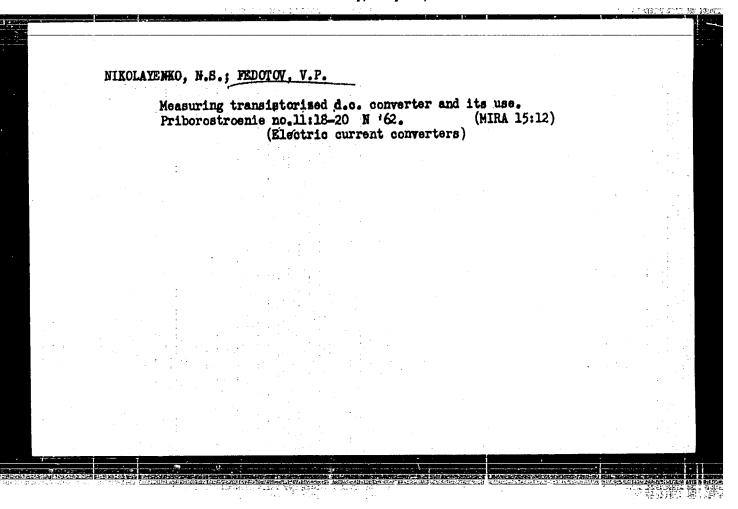
1. Leningradskiy elektrotekhnicheskiy institut imeni Ul'yanova-lenina. Rekomendovana kafedroy elektroizmeritel'noy tekhniki. (Electric current converters)

## NIKOLAYENKO, N.S.; FEDOTOV, V.P.

Transistor circuit as a converter of weak d.c. to a.c. Izv.vys.uchab.zav.; prib. 5 no.1:16-26 '62. (MIRA 15:2)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina). Rekomendovana kafedroy elektroizmeritel'noy tekhniki.

(Transistor circuits)



S/146/63/006/001/001/014 D201/D308

AUTHORS: Nikolayenko, N. S. and Fedotov, V. P.

TITLE: Special features in the use of silicon transistors as d.c. to a.c. converters for small signals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 6, no. 1, 1963, 19-26

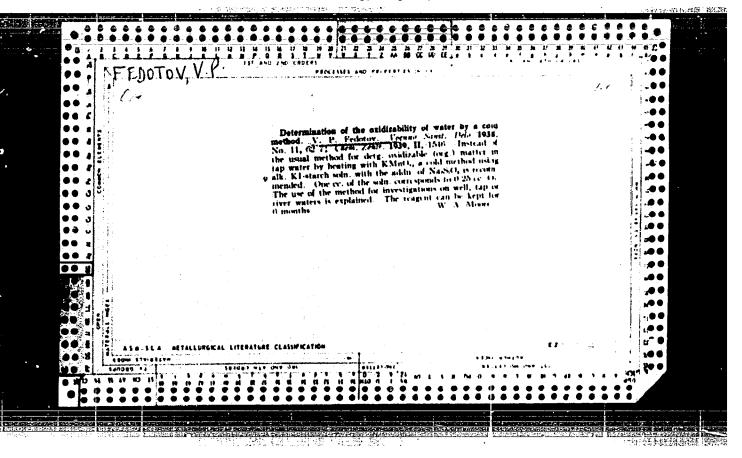
TEXT: The authors analyze germanium and silicon transistors from the point of view of their use as choppers in d.c. amplifiers and describe the methods of their selection and of the design of circuit components: A chopper circuit for a wide temperature range of operation, utilizing a silicon transistor with saturation voltage compensation is described. The theory and experimental investigation of the transistor characteristics show that, for small d.c. signal conversion, the silicon transistors give a better performance in the presence of a wide temperature range. They are much inferior, however, to germanium transistors where reproducibility, economy and simplicity of design are of importance. The use of silicon

Card 1/2

# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

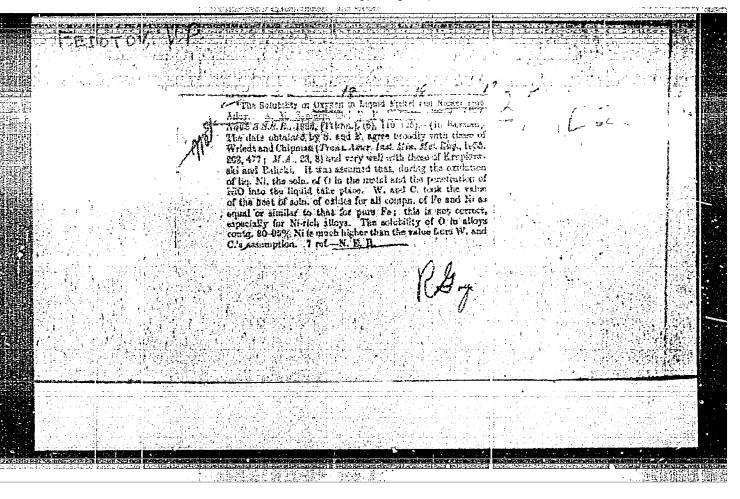
Special featu	res in	S/146/6 D201/D3	3/006/001/00 08	1/014	
transistors s	hould, therefore, b mbient temperatures gh internal resista	e restricted t	o converters	operat- .c. sour-	
ASSOCIATION:	Leningradksiy elek Ul'yanova (Lenina) Engineering im. V.	trotekhnichesk (Leningrad In	iy institut stitute of E	im. V. I. lectrical	
SUBMITTED:	November 25, 1961				

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

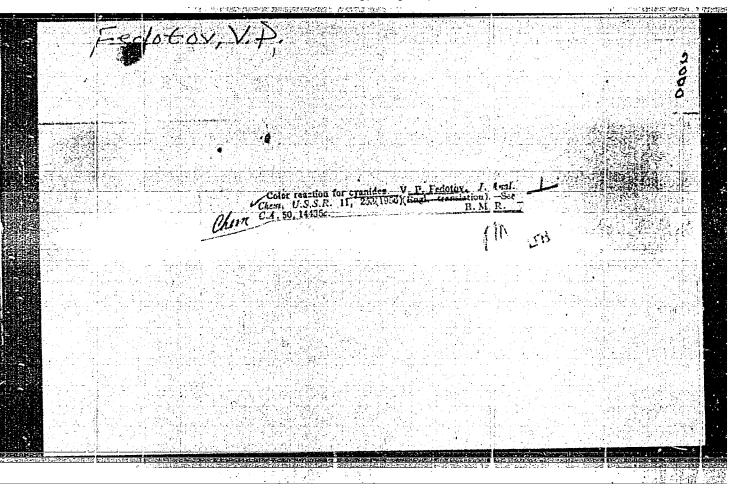


### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273



## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273



### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

"Solubility of Nitrogen in Iron Melt and Silicon,"
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of Metallurgy, Moscwo, July - 1-6 1957.

FEDOTOV, V.P., Candidate Tech Sci (diss) -- "The solubility of nitrogen in liquid iron and melts of iron and silicon". Moscow, 1959. 9 pp (Acad Sci USSR, Inst of Metallurgy im A. A. Baykov) 150 copies (KL, No 24, 1959, 142)

13(3) 507/20-122-4-15/57

AUTHORS: Fedotov, V. P., Samarin, A. M., Corresponding Member, Academy

of Sciences, USSR

TITLE: The Schubility of Nitrogen in Liquid Iron and in Melts of

Iron and Silicon (Rastvorimost' azota v zhidkom zheleze i

rasplavakh zheleza i kremniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 597-599

(USSR)

ABSTRACT: This paper deals with the following problem: The solubility

of nitrogen in melts of iron and silicon are to be determined, the causes of the discrepancies in the previous investigation and of the anomalous behavior of nitrogen in these melts are to be found. The apparatus for the investigation of the solubility of nitrogen was described in a previous paper (Ref 6). Carbonyl iron, silicon KrO , and silicon of the kind 99,99 were used as initial materials. The authors investigated 4 series of melts, the preparation of which is described. The following conclusions can be drawn from the experimental results obtained: The sclubility of nitrogen in

Card 1/3 liquid iron depends on the content of oxygen in iron (i.e.

504/20-122-4-15/57

The Solubility of Nitrogen in Liquid Iron and in Melts of Iron and Silicon

on the oxygen bound in the oxides and also on the oxygen contained in the solution). The discrepancy between the results of the previous papers on this subject are caused not only by the different experimental errors, but also by the neglect of the influence of oxygen on the solubility of nitrogen in liquid iron. The solubility of nitrogen in liquid iron and in melts of iron and silicon (if their content of oxygen is of medium value) grows with increasing temperature and decreases with the increase of the silicon concentration. Moreover, this solubility of nitrogen satisfies the law of A. Sieverts (Siverts, Ref !) for the influence of the pressure. The rate of the cooling of the melt from the experimental temperature to the roint of solidification exercises considerable influence on solubility. The content of mitrogen in iron and in iron-silicon alloys can be diminished by tempering in a vacuum and in a helium atmosphere at 1100-1350 for 24 - 72 hours. Such a treatment in a vacuum hoticeably purifies iron and its alloys with silicon. There are 2 figures, 3 tables, and 6 references, 2 of which are Soviet.

Card 2/3

507/20-122-4-15/57

The Solubility of Nitrogen in Liquid Iron and in Melts of Iron and Silicon

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR

(Institute of Metallurgy imeni A. A. Baykov, Academy of

Sciences, USSR)

SUBMITTED: June 19, 1958

Card 3/3

FEDOTOV, V.P.; SKLYARENKO, M.S.; SAMARIN, A.M.

Razrabotka metoda polucheniya zheleza vysckoy stepeni chistoty i yekotorye ego svoystva.

report submitted for the 5th Fhysical Chemical Conference on Steel Production.

Moscow \_30 JUN 1959

SOV/120-59-2-40/50

Bogomolov, V.N., Nikolayenko, N.S. and Fedotov, V.P. AUTHORS:

A D.C.-A.C. Convertor Based on the Use of the Hall Effect TITLE:

(Preobrazovatel postoyannogo toka v peremennyy, osnovannyy na ispol'zovanii effekta Kholla)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2,

pp 134-135 (USSR)

ABSTRACT: A cross-section through the device is in Fig 1. 40 mm in diameter and 40 mm high and consists of a permalloy screen surrounding a toroidal coil with a KhVP core. The coil is designed to accept 50 c/s at 6.3 V and draws 0.2 A. The power dissipation is 0.2 W. The semi-conductor wafer  $(5 \times 3.5 \times 0.3 \text{ mm}^3)$  of n-type 8 ohm cm germanium is secured by epcxy resin in an air gap in the core. It has an input resistance of 100 ohms and an output resistance of 500 ohms. The current

conversion ratio DC-AC is 20%. The effective flux density is 15000 gauss. The voltage transfer coefficient is 1.2-1.3 per 1000 gauss of field. A compensating coil is also included, as in Fig 2, to increase sensitivity and thermal stability. The converter is intended for

operation with the EPP-09 recording potentiometer. Card 1/2 systematic and random components of error are both 0.2%

CIA-RDP86-00513R00041273(

APPROVED FOR RELEASE: Thursday, July 27, 2000

SOV/120-59-2-40/50 & D.C.-A.C. Converter Based on the Use of the Hall Effect and the sensitivity is 5 micro watts. The temperature coefficient is 0.01 % per degree centigrade and the sensitivity falls with temperature. The converter is insensitive to ± 10% change in supply voltage, ± 5% change in supply frequency and the effects of moisture. It is suggested that the unit find application as a computing element or in ad.c. amplifier. V.I. Pogodin card 2/2 is thanked for his assistance. There are 2 figures.

ASSOCIATION: Institut poluprovodnikov AN SSSR

(Semiconductor Institute of the Ac. Sc. USSR)

SUBMITTED: April 5, 1958

S/020/61/139/006/014/022 B103/B101

AUTHORS:

Baratashvili, I. B., Fedotov, V. P., Samarin, A. M., Corresponding Member AS USSR, and Berezhiani, V. M.

TITLE:

Solubility of nitrogen in liquid manganese

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 6, 1961, 1354-1355

TEXT: Since the data published on the solubility of nitrogen in liquid manganese are contradictory, the authors studied this problem by the method of dynamic equilibrium established between liquid manganese and nitrogen or a nitrogen - hydrogen mixture. The activity of N<sub>2</sub> in the metal corresponds to the partial pressure of N<sub>2</sub> in the gaseous phase at the instant of equilibration. The nitrogen content corresponding to the equilibrium was determined in a specimen of the solid, rapidly cooled metal. Methods and apparatus were described by A. M. Samarin, V. P. Fedotov (Tr. IV Konfer. po fiziko-khimicheskim osnovam proizvodstva stali (Proceedings of the 4th Conference on the Physicochemical Fundamentals of Steel Production)Izd. AN SSSR, 1960, p. 144). The metal Card 1/3

Solubility of nitrogen in liquid ...

S/020/61/139/006/014/022 B103/B101

was heated with an ///-60 (LG-60) h-f tube generator. Mn melt was purified with purified hydrogen (400 ml/min) for 1 hr. Subsequently, it was cooled and again molten (Test series I and II). The melt was subjected to the action of  $N_2$  or  $N_2+H_2$  for 120 - 180 min at a given temperature and with a given consumption of  $H_2$  and  $N_2$  (40 and 1100 ml/min, respectively) (series I). In the second series, the treatment was performed within 30, 60, 90, and 120 min. In the third series, Mn with a nitrogen content of 3.3 and 6.0% was treated as stated above but without previous purification in  $H_2$ . The nitrogen content of Mn was chemically determined. It is noted that equilibrium at the same temperature is attained both by saturating the Mn melt with nitrogen and by denitrifying the nitrogen-containing Mn. Keeping the manganese in the gas current for 1 hr is sufficient for reaching equilibrium. The solubility of nitrogen decreases with increasing temperature. This function is given by  $1/2 N_2(g) \rightleftharpoons N_1$ ,  $K = a_N/P_{N_2}^{1/2} = f_N N_1 /P_{N_2}^{1/2}(1)$ . As a standard state, an Mn melt is taken, which is in Card 2/3

Solubility of nitrogen in liquid ... S/020/61/139/006/014/022 B103/B101

equilibrium with N<sub>2</sub> having a pressure of 1 atm. According to experimental data, the following relations are obtained for  $P_{N_2} = 1$  atm and  $f_{N} = 1$ :

$$log K = log[\% N] = 3010/T - 1.457; (2);$$

$$\Delta F^{\circ} = -13,780 + 6.65 \text{ T}$$
 (3).

There are 2 figures and 6 references: 3 Soviet and 3 non-Soviet.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov, Academy of Sciences USSR)

SUBMITTED: April 29, 1961

Card 3/3

S/020/61/140/002/022/023 B130/B110

AUTHORS:

Baratashvili, I. B., Fedotov, V. P., Sanarin, A. M., and

Berezhiani, V. M., Corresponding Member AS USSR

TITLE:

Solubility of nitrogen in manganese-iron and manganese-

silicon melts

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 140, no. 2, 1961, 423-425

TEXT: The solubility of nitrogen and nitrogen-hydrogen mixtures in Mn-Fe and Mn-Si melts is calculated by the method of dynamic equilibrium between melt and gaseous phase. Apparatus and method were the same as indicated by A. M. Samarin, V. P. Fedotov (Tr. IV Konfer. po fiziko-khimicheskim osnovam proizvodstva stali, Izd. AN SSSR, 1960, p. 144). The Fe and Si content changed during melting by 2-3%. Results of determination of the solubility of nitrogen are given in Figs. 1 and 2. From the experimental data, the dependence of the coefficient of nitrogen activity in Mn-Fe and Mn-Si melts on the Fe and Si concentration in the melts is given:

 $a_N^{Mn} = f_N[\%N]_{Mn}, \quad a_N^{Mn-Si(Fe)} = f_N[\%N]_{Mn-Si(Fe)}$ 

(a).

Card 1/1/2

8/020/61/140/002/022/023 Solubility of nitrogen ... B130/B110 Thus, at constant pressure and constant temperature under equilibrium conditions,  $a_N^{Mn} = a_N^{Mn-Si(Fe)},$  $f_N[\%N]_{Mn} = f_N[\%N]_{Mn-Si(Fe)}$ The solubility of nitrogen in liquid Mn at  $p_{N_2}$ = 1 atm and T = const is taken as standard. [%N]<sub>Mn</sub> Then,  $f_N = 1$  and  $f_N$ Si causes a stronger decrease of N solubility than Fe. temperature of the melt reduces the N solubility (Fig. 4). log K and  $\Delta F^{O}$ Also an increase in the were calculated from the experimental data given in Fig. 4. Calculation results are given in Table 1. There are 4 figures, ! table, and 3 Soviet ASSOCIATION: Institut Metallurgii im. A. A. Baykova Akademii nauk BSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR) SUBMITTED: May 11, 1961 Card 2/6

S/146/61/004/006/003/020 D249/D301

AUTHORS:

Nikolayenko, N. S. and Fedotov, V. P.

TITLE:

Current converters with semiconductor triodes

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroy-

eniye, v. 4, no. 6, 1961, 17-25

TEXT: A general description is given of converters of small d.c. signals into a.c. signals by semiconductor triodes which is compiled from literature. Characteristics of the semiconductor triode as a converter, compensation of residual parameters and characteristics of the converter in amplifier circuits for direct current are considered. There are 6 figures and 17 references: 4 Sovietbloc and 13 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: A. Gill, Transistor Switch design, Electronics, 1958, XII no. 49, 97; R. B. Hurley, Transistorized low-level choppers circuits, Electr. Industry, no. 12, 1956; B. T. Barber, L. S. Klivan, Servo Modulators - III, Semiconductor modulators, magnetic modulators, tabulated characte-

Card 1/2

Current converters with ...

\$/146/61/004/006/003/020 D249/D301

ristics, Control. Engng. 1957, 4, no. 11, 122-131; B. T. Barber, Servor Modulators - I. Where and why they are used, Control. Engng. 1957, 4. no. 8, 65. This article was recommended by the Kafedra elektroizmeritel'noy tekhniki (Department of Electrical-Measuring Techniques).

ASSOCIATION:

Leningradskiy elektrotekhnicheskiy institut im. V.I. Ul'yanova (Lenina) (Leningrad Electrotechnical In-

stitute im. V. I. Ul'yanov (Lenin))

SUBMITTED:

February 27, 1961

Card 2/2

BARATASHVILI, I.B.; FEDOTOV, V.P.; SAMARIN, A.M.; BEREZFIANI, V.M.

Solubility of nitrogen in liquid manganese. Dokl. AN SSSR
139 no.6:1354-1355 Ag '61. (MIRA 14:8)

1. Institut metallurgii im. A.A. Baykova AN SSSR. 2. Chlenkorrespondent AN SSSR (for Samarin).

(Nitrogen) (Manganese)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273(

BARATASHVILI, I.B.; FEDOTOV, V.P.; SAMARIN, A.M.; BEREZHIANI, V.M.

Solubility of nitrogen in manganese-iron, and manganese-silicon melts. Dokl. AN SSSR 140 no.2:423-425 S '61. (MIRA 14:9)

1. Institut metallurgii im. A.A.Baykova AN SSSR. 2. Chlenkorrespondent AN SSSR (for Samarin).

(Nitrogen) (Manganese alloys)

S/146/62/005/001/003/011 p234/p302

AUTHORS:

Nikolayenko, N.S. and Fedotov, V.P.

TITLE:

A semiconductor triode in the regime of transformation

of small d.c. into a.c.

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,

v. 5, no. 1, 1962, 16-26

TEXT: The authors determine the residual voltage and current and the resistance between the emitter and collector for the case stated and give a relation between these parameters and the current amplification factor and inverse transition currents. Temperature dependence of the parameters in a transformation regime is analyzed. Theoretical and experimental values of several dependences are compared. It is concluded that comparatively good stabilization in a wide temperature range is only possible when the load resistance is of the order of several hundreds of ohms or less. For high resistances silicone triodes are recommended. There are 5 figures and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The references

Card 1/2

S/146/62/005/001/003/011 D234/D302

A semiconductor triode in ...

to the English-language publications read as follows: J.J.S. Ebers, and J.J.L. Moll, Large-signal behaviour of junction transistors. Proc. I.K.E, 1954, Dec. 142.; E. Steele, Theory of a p-n-p diffused junction transistors. PIRE, 1952, 40, 1424.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V.1. Ul'yano-va (Lenina) (Leningrad Institute of Electrical Engineering im. V.I. Ul'-yanov (Lenin))

SUBMITTED: February 27, 1961

Card 2/2

MIKHEYEV, N.I.; BULYGIN, I.P.; MAKSIHOVA, N.A.; FEDOTOV, V.P.

Apparatus for mechanical testing at temperatures up to 2000°C; Zav.lab. 29 no.3:371-375 '63. (MIRA 16:2) (Metals at high temperatures) (Tosting machines)

L 24235-46 ENTO ACC NR. AP6014671 SOURCE CODE: UR/0241/65/010/010/0057/00 AUTHOR: Moroz, B. B.; Bezin, G. I.; Grozdov, S. P.; Lebedev, B. I.; Vasil'yevskava. V. C .-- Vasilievskava, V. V.; Ponomar'kov, V. I.--Ponomarkov, V. I.; Fedorovskiy, L. L .-- Fedorovsky, L. L.; Fedotov, V. P. ORG: none TITLE: Experimental Po sup 210 - induced chronic radiation sickness SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 57-61 TOPIC TAGS: polonium, radiation sickness, dog, alpha radiation, radiology ABSTRACT: The article describes the features of the clinical course and variation of certain functions in dogs with chronic radiation sickness caused by a single subcutaneous injection of Po<sup>210</sup> (0.003 microcuries per kg body weight). A prolonged initial period of relative clinical well-being was observed, with a developed picture of radiation sickness setting in only after some 3 months and with the dogs dying off individually after a period of from 128 to 310 days. The distribution of Po210 throughout the tissues and organs, which resulted in a constant local alpha-irradiation of the latter, evidently played a major role in the genesis of these disturbances, with gradual increment in the tissue dose, which after 6-9 months reached 1,100-1,400 rads. During the period of distinct radiation sickness the dogs displayed lethargy, lack of appetite, periodic diarrhea, and thirst, along with spontaneous bleeding of the oral mucosa and spontaneous hemorrhages of the rictum and Card 1/2 UDC: 617-001.28-008.939.65

ō

L 24235-66 ACC NR, AP6014671

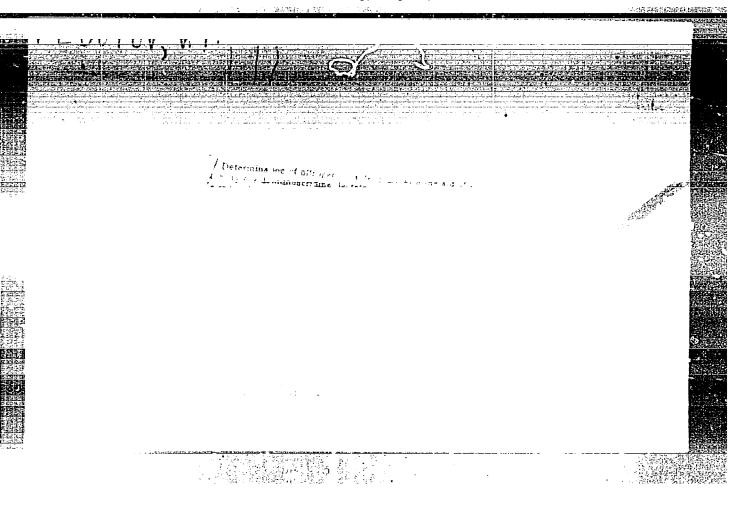
urinary tract. Shortly before death, the state of the dogs sharply detericrated; they moved with difficulty, refused food, and vemitted bile and blood.
Rectal temperature rose; the pulse was quick, arrhythmic, and arterial pressure fell. With these symptoms, the dogs died. It was accompanied by deep
trophic disturbances due to a combination of mechanisms, each of which by
itself may cause trophic changes: disturbances in neuroendocrine regulations
with insufficiency of the adrenal cortex; metabolic disorders, hemodynamic
disorders, and chronic hypoxia, as well as the constant direct local effect
of the alpha-emitter on the tissues. Anatomo-pathological dissection revealed that state of general dystrophy which is so characteristic of polcnium
poisoning and is not encountered when other radioactive isotopes pervade
the organism. Orig. art. has: 4 tables. [JPRS]

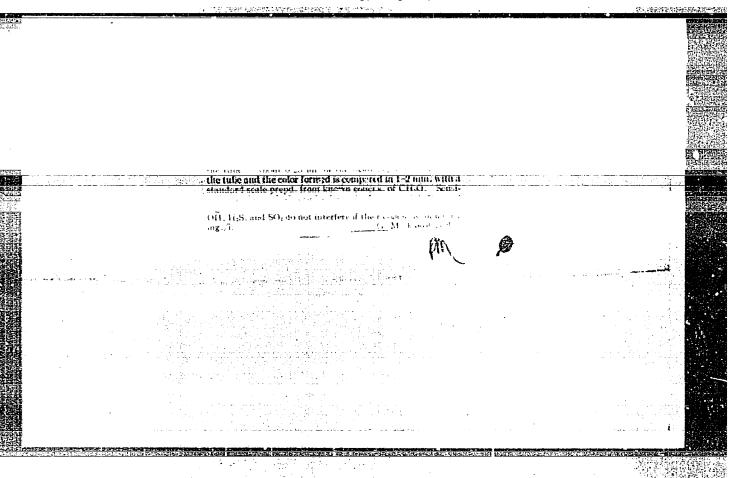
SUB CODE: 06 / SUBM DATE: 25Aug64 / ORIG REF: 009

Card 2/2dda

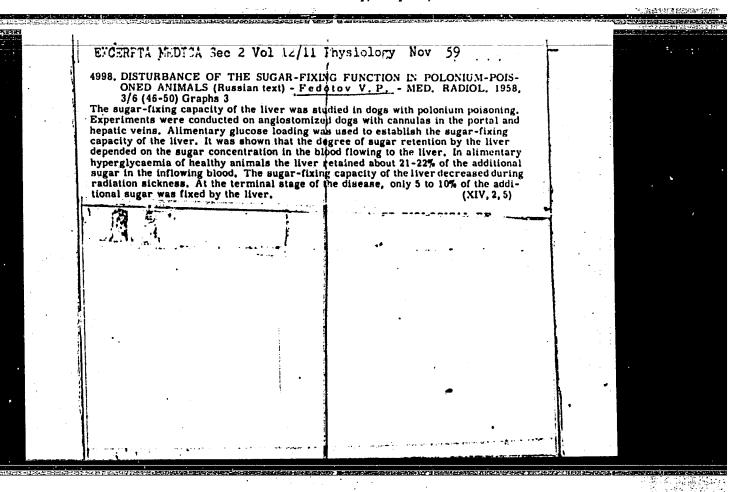
Card 1/1

Sanitary - Epidemislogy, Dept., Contor on - Don





FEDOTOV, V. P.: Master Med Sci (diss) -- "The state of the carbohydrate function of the liver in dogs injured by polonium". Moscow, 1958. 14 pp (Acad Med Sci USSR), 250 copies (KL, No 8, 1959, 139)



```
Uric acid and allantoin in the urine and blood of animals exposed to ionizing radiations. Biul. eksp. biol. i med. 47 no.3:44-49 Mr '59.

(MIRA 12:7)

1. Fredstavlena deystvitel'nym chlenom AMN SSSR A.Ye. Braunshteynom.

(HYDANTOINS, metab.

allantoin in blood & urine, eff. of lethal doses of radiations in animals (Mns))

(URIC ACID, metab.

blood & urine, eff. of lethal dose irradiation in animals (Rns))

(RADIATIONS, effects,

on blood & urine allantoin & uric acid in animals, lethal dose (Rns)
```

PROTASOV, A.I., dotsent; SINEY, A.V., prof.; SMIRNOV, A.M., dotsent;

BAZHENOV, A.N., dotsent; VIL'NER, A.M., prof.; BASHMURIN, A.F.,

dotsent; SHAKALOV, K.I., prof.; VELLER, A.A., prof.; NIKANOROV,

V.A., prof.; FEDOTOV, V.P., dotsent; KUZNETSOV, G.S., prof.;

BOCHAROV, I.A., prof.; SHCHERBATYKH, P.Ya., prof.; TSION, R.A.,

prof.; GRIBANOVSKAYA, Ye.Ya., dotsent; ADAMANIS, V.F., assistent;

KOLABSKIY, N.A., dotsent; MITSKEVICH, V.Yu., dotsent; GUSEVA, N.V.,

dotsent; MYSHKIN, P.P., dotsent; GUBAREVICH, Ya.G., prof.;

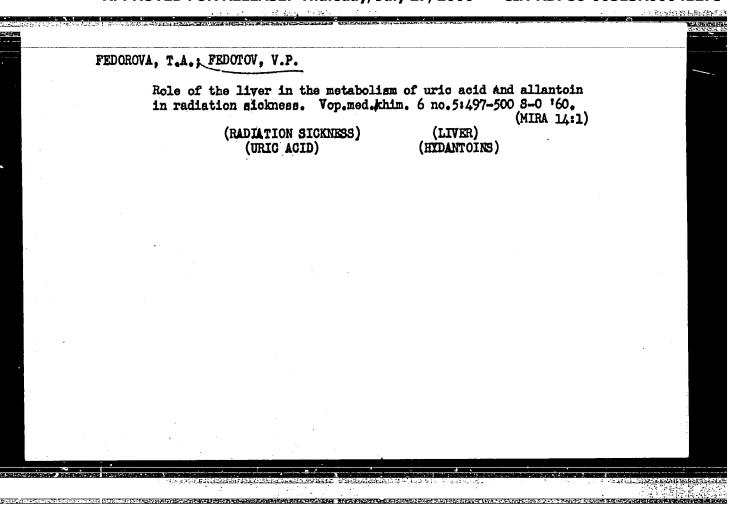
FEDOTOV, B.N., prof.; DOBIN, M.A., dotsent; SIROTKIN, V.A., prof.

[deceased]; KUZ'MIN, V.V., prof.; YEVDOKIMOV, P.D., prof.; POLYAKOV,

A.A., prof.; POLYAKOV, P.Ya., red.; BARAHOVA, L.G., tekhn.red.

[Concise handbook for the veterinarian] Kratkii spravochnik veterinarnogo vracha. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 624 p. (MIRA 13:12)

(Veterinary medicine)



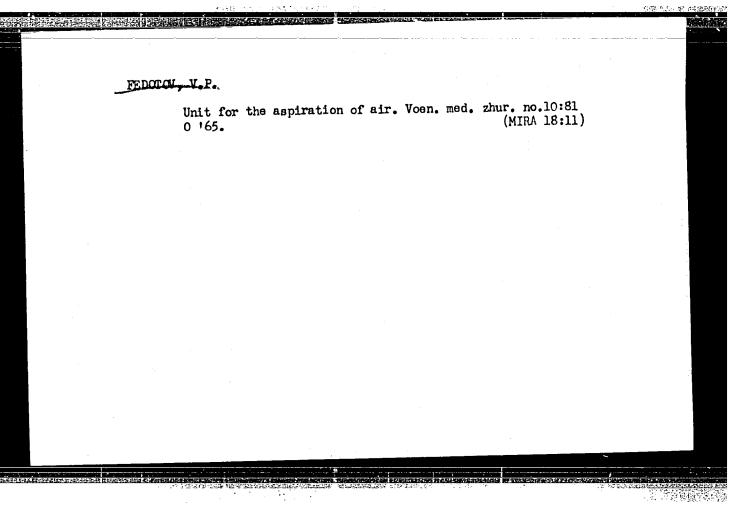
SALISHCHEV, D.S.; FEDOTOV, V.P.; SIDORENKO, V.M., gornyy inzh.; PROTAS, N.T., gornyy inzhener; NIKITIN, I.P., gornyy inzhener

"Improve the work of underground sections" by IA.D.Grossman, E.M. Kozakov. Reviewed by D.S.Salishchev and others. Gor.zhur. no.5: 8-13 My 161. (MIRA 1416)

1. Glavnyy inzhener Tashtagol'skogo sheleznogo rudnika (for Salishchev). 2. Nachal'nik otdela truda i zarabotnoy platy Tashtagol'skogo zheleznogo rudnika (for Fedotov). 3. Shakhta "Bol'shevik," Krivoy Rog (for Sidorenko). 4. Shakhta "Novaya" rudoupravleniya imeni K. Libknekhta (for Protas). 5. Krivoroshskiy filial Instituta gornogo dela AN USSR.

(Mine engineering) (Mine managément)

(Grossman, IA.D.) (Kozakov, E.M.)



FEDOTOV, V.P., BEZIN, G.I.

Mechanism of gas exchange disturbance in dogs with radiation sickness caused by Po210. Radiobiologiia 5 no.4:522-524 165. (MIRA 18:9)

```
MOROZ, B.B.; BEZIN, G.I.; VASIL'YEVSKAYA, V.G.; GROZDOV, S.F.;
LEEEDEV, B.I.; PONOMAR'KOV, V.I.; FELOROVSKIY, I.L.;
FEDOTOV, V.P.

Experimental chronic radiation sickness induced by Po Med. rad. 10 no.10:57-61 0 '65. (MIPA 18:12)

1. Submitted August 25, 1964.
```

L 34643-65

ACCESSION NR: AP5010342

AUTHOR: Gorizontov, P. D.; Moroz, B. B.; Fedotov, V. P.; Bibikova, B. A. F.; Yevseyava, N. K.

TITLE: Significance of neurcendocrine changes in remote effects resulting from ionizing radiation

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 221-226

TOPIC TAGS: animal, dog, radiation sickness, remote radiation effect, endocrinology, neurcendocrine system, hypophysis, adrenal claud, adrenal cortex, hypothalamus, deficiency disease, collagen, early aging, corticosteroid

ABSTRACT: Afteen dogs who had recovered from acute radiation sickness resulting from gamma-neutron irradiation of 300 bor were included 3-5 yrs later to determine the state of the hypothysis and adrenal cortex system. Glucocorticoid and mineralcocritical investigations of adrenal gland functions revealed that 12 of the 15 dogs had developed interrenal deficiency symptoms. Typical remote offects included nonuniform local damage of the adrenal glands which

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412730

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

L 54643-65	n tanggar ng tanggar panggar sa kananggar Panggar ng tanggar panggar panggar sa kanang			wing the second			
CCESSION	NR: AP501	L0342		Adrini pirentusi si Egiboro		0	
ippears t	o be relate	id to select	tive damage	or the sy	ri <del>che tio</del> I	rocesses	-
n diller	ent gregs (	)] the sore	nal cortex. the adrena	i corter	ino possi	nie chantam	
erizona	THE PROPERTY	(1 Boase of	nla for and the	t contract.	arieci i	ore adrenal	ì Ì
LUBITE EGA	one are or	the maches	nisms regula	eting horm	one forms	tion. and	•
1 3-4-6	in segment di	aficiency m	ny be the re	equit of f	unadtated	organism	
tanier :	2 ( 25 to 02 12 to	continuater	oida. Morra	noj uzjak	ovanteat.	Jul.	
			titura orear in			7	
		วล. ๔๓เศ 🗝 พาว	Simple State of the State of th				
			l activity			* *** * *	
Color an	1 growth of	collagen	tissue in t	प्रमाणा र रेपड	က္မႈ မွာ မွာ ေက	. 9	i
			is of early				•
			mnysis and				
trobut c	f the inter	mai organs	and arteriading to tr	oscierovic	្តប្រជាជន្លិ <del>ន</del>	on one	1 1 2
			ading to the				
			m in remote				
					i		- ;
							Alerrica.
rig. ert	ON: Hone.						
rlg. ert	ON: None.	respective supplies of the second					

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

	ACCESSION N	H: AP5010342	2.					
BUBHITTED:		26Sep63	ENOL: 00	00	SUI	code: la		The second secon
	NR REF SOV:	013	OTHER:	200			. 1	
					والمستعمرين وأستوري			
5								
	Card 3/3							

EWT (m) L 38239-66 SOURCE CODE: UR/02:19/66/061/002/0050/0053 ACC NR: AP6028696  $\mathfrak{L}$ AUTHOR: Fedotov. V. P.; Rynkova. N. N. (Moscow) ORG: none TITIE: Inactivation of 17-hydroxycorticosteroids in the liver of healthy and irradiated dogs Source: Byulleten eksperimental noy biologii i meditsiny, v. 61, no. 2, 1966, 50-53 TOPIC TAGS: corticosteroid, liver, dog, radiation biologic effect, enzyme, adrenal gland, hormone ABSTRACT: Angiostomized dogs were fed O.1 g of cortisone with a small amount of meat. Blood was drawn 1 and 2 hours later from the portal and hepatic veins. The intensity of cortisone inactivation by the liver was determined from the difference in the amounts of the hormone present in the two veins. The liver was found to convert or bind 53.5-89.5% (67.6%) of the hormone reaching it with portal blood. Exposure of the animals to lethal doses of gamma rays reduced the rate of steroid retention by 18-50%. The decreased steroid retention may be due to the fact that irradiation also inhibits the liver's enzyme systems. Another possible explanation is that irradiation increases the need for adrenal hormones. Hence, the release of more hormones by the liver may be a regulatory act aimed at compensating impaired functions. This article was presented by Active member AMN SSSR P. D. Gorizontov. Orig. art. has: 1 figure and 1 table. [JPRS] SUB CODE: 06 / SUBM DATE: 31Aug64 / ORIG REF: 005 / OTH REF: 007 UDC: 612.354.3:612.453.018+617-001.28-092.07 6.6 154.453.02:616.39-008

ACC INR: AP7003549

SOURCE CODE: UR/0241/67/012/CO1/CO39/CO91

AUTHORS: Rogozkin, V. D. (Moscow); Fedotov, V. P. (Moscow); Chertkov, K. S. (Moscow)

ORG: none

TITLE: The effect of small doses of glucocorticoids on severe radiation sickness

SOURCE: Meditsinskaya radiologiya, v. 12, no. 1, 1967, 89-91

TOPIC TAGS: radiation sickness, drug treatment, corticoid, corticosteroid, grand madication, rediction and flet, anticatation due;

ABSTRACT: Tests were conducted to determine the effect of small doses of glucocorticoids in cases of severe radiation sickness. Female guinea pigs weighing 270—350 g were exposed to 300 r of y-radiation at 3.5 r/sec from an EGO-2 cobalt apparatus. Test animals were given 25 mcg of prednizolon and 2.5 mcg of deksametazon orally once daily for 10 days beginning with the 4th day after irradiation. Examination of treated animals indicated a lower death rate compared with the control group (10% vs 20%), insignificant changes in the amount of 11-oxycorticosteroids in the blood (calculated according to a modified Popens method), a positive effect on hemopoiesis, and the presence of more leukocytes than in control animals. These tests support previous data on the appearance of hypercorticoidism during the poriod of greatest depression of hemopoiesis and indicate that small doses of glucocorticoids reduce the catabolic and lymphopenic effect which causes postradiation hypercorticoidism. Orig. art. has: 1 graph and 1 table.

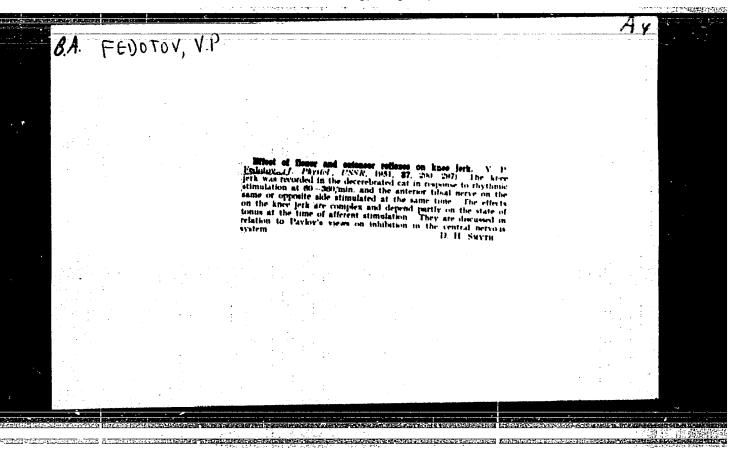
SUB CODE: 06/ SUBM DATE: 31Jan66/ ATD PRESS: 5117

Card 1/1

VDC: 615.361.453-015.31-06:617-001.28-036.11

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000412730



## Phasic reaction of the liver to the intravenous injection of insulin. Probl. endok. i gorm. 8 no.3:36-39 My\_Je '62. (MIFA 15:6) 1. Rukovoditel' - zasluzhennyy deyatel' nauki prof. I. A. Figalev) (INSULIN) (LIVER)

KOVAL'SKIY, B.S. (Khar'kov); FEDOTOV, V.P. (Khar'kov)

Design of safety membranes. Prikl. mekh. 1 no.4:113-119 '65.

(MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273

## REEL NUMBER 126 CARDS FROM FEDCHENKO, YE. D.

